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(54) MEASUREMENT OF GLYCOSYLATED AMINE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method enabling a glycosylated amine in a specimen to be measured with a high precision.

SOLUTION: This method is to perform the oxidative decomposition of a glycosylated amine with a glycosylated amine-oxidizing and decomposing enzyme into a saccharide and an amine, to subject a saccharide to oxidative decomposition with a saccharide-oxidizing and decomposing enzyme, to measure the quantity of the same reaction product or the same consumed substance in both oxidative decomposition reactions and to determine the quantity of glycosylated amine from the measured value. For example, when the glycosylated amine is a glycosylated protein, a sample is decomposed with a protease, is treated with a fructosyl amino acid oxidase and then is treated with a glucose oxidase. By adding a peroxidase and a chromogenic substrate to the obtained solution and by measuring its coloring, sensitivity of measurement is improved in comparison with a conventional method.

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